We claim:

1. A device for transmitting an excursion of an actuator, comprising at least one transmission element, a first, a second, and a third bearing area, wherein the first bearing area is assigned to a counter bearing, the second bearing area is assigned to the actuator and the third bearing area is assigned to a control member, wherein the at least one transmission element is supported with the first bearing area against the counter bearing when the actuator is operated and moves the control member with the third bearing area by means of a rotational motion about a point of rotation, wherein the at least one transmission element is configured substantially in the form of a plate, which is disposed substantially perpendicular to the control motion, and wherein the first, second and third bearing areas are each configured as substantially flat surfaces on the plate.

2. The device according to Claim 1, further comprising a distance between a central axis of the actuator and a central axis of the control member.

3. The device according to Claim 1, further comprising at least two transmission elements, which are disposed opposite each other.

4. The device according to Claim 1, further comprising at least three transmission elements, which are disposed in a substantially concentric manner in respect of each other.

5. The device according to Claim 3, further comprising concentric central axes of the actuator and the control member.

6. The device according to Claim 1, wherein the plate of the at least one transmission element is configured in a stepped manner.

7. The device according to Claim 6, wherein the second bearing area is assigned to an upper side and the third bearing area is assigned to a lower side of a first straight section of the stepped plate.

8. The device according to Claim 6, wherein the first bearing area is assigned to a lower side of a second straight section of the stepped plate.

9. The device according to Claim 6, wherein the first and second straight sections of the stepped plate are connected by means of a connecting section.

10. The device according to Claim 6, wherein the second straight section of the stepped plate encompasses a lower sleeve area of the actuator.

11. The device according to Claim 6, wherein the upper side of the first straight section and the lower side of the second straight section lie approximately on a common plane.

12. The device according to Claim 1, wherein the plate is produced by cold or hot forming.

13. The device according to Claim 1, further comprising ground surfaces of the bearing areas of the plate.

14. The device according to Claim 1, wherein an intermediate member connected to the actuator is provided between the actuator and the second bearing area of the at least one transmission element.

15. The device according to Claim 14, further comprising a positive, non-positive or material-fit connection between the actuator and the intermediate member.

16. The device according to Claim 14, wherein the intermediate member comprises at least one raised edge, which is in contact with the second bearing area of the at least one plate.

17. The device according to Claim 16, further comprising linear contact between the raised edge of the intermediate member and the second bearing area of the plate.

18. The device according to Claim 16, further comprising a raised edge height of approximately 200 μm.

19. The device according to Claim 16, further comprising a rounded raised edge.

20. The device according to Claim 14, wherein the second bearing area of the at least one plate comprises at least one raised edge, which is in contact with the intermediate member.

21. The device according to Claim 20, further comprising linear contact between the raised edge of the second bearing area of the plate and the intermediate member.

22. The device according to Claim 20, further comprising a raised edge height of approximately 200 μm.

23. The device according to Claim 20, further comprising a rounded raised edge.

24. The device according to Claim 1, wherein at least one support element is provided as the counter bearing between a housing and the first bearing area of the at least one transmission element.

25. The device according to Claim 24, wherein the support element comprises a raised edge, which is in contact with the first bearing area of the at least one transmission element.

26. The device according to Claim 25, further comprising a linear contact between the raised edge of the support element and the first bearing area of the transmission element.

27. The device according to Claim 25, further comprising a raised edge height of approximately 200 μm.

28. The device according to Claim 25, further comprising a rounded raised edge.

29. The device according to Claim 24, further comprising ground surfaces of the intermediate member and/or the support element.

30. The device according to Claim 1, wherein the actuator is a piezoelectric actuator.

31. The device according to Claim 1, further comprising a translation ratio in the range of approximately 1:4 to 1:20 of an excursion of the actuator to an excursion of the control member.

32. The device according to Claim 1, further comprising a translation ratio of approximately 1:6 of an excursion of the actuator to an excursion of the control member.

33. The device according to Claim 1, further comprising a triangular contour of the longitudinal section of the plate.

34. The device according to Claim 1, for transmitting an excursion of an actuator, in particular a piezoactuator of an injection valve, wherein at least a first lever device and a second lever device are provided, and whereby the excursion of the actuator is transmitted from the first lever device to the second lever device.

35. The device according to Claim 34, wherein the excursion of the actuator is transmitted from the second lever device to a control member.

36. The device according to Claim 34, wherein the first lever device and/or the second lever device comprises at least one transmission element disposed substantially perpendicular to the direction of excursion of the actuator.

37. The device according to Claim 36, wherein at least one transmission element is substantially plate-shaped.

38. The device according to Claim 36, wherein at least one surface of at least one transmission element is convex.

39. The device according to Claim 36, wherein it comprises a first transmission element with a first, second and third bearing area and a second transmission element with a fourth, fifth and sixth bearing area, whereby the first bearing area is assigned to a first counter bearing, the second bearing area is assigned to the actuator, the third bearing area is assigned to the second transmission element, the fourth bearing area is assigned to a second counter bearing, the fifth bearing area is assigned to the first transmission element and the sixth bearing area is assigned to a control element.

40. The device according to Claim 39, wherein the first transmission element is supported with the first bearing area against the first counter bearing when the actuator acts on the second bearing area and acts with the third bearing area on the fifth bearing area of the second transmission element by means of a rotational motion, said transmission element being supported with the fourth bearing area against the second counter bearing and acting with the sixth bearing area on the control member by means of a rotational motion.

41. The device according to Claim 39, wherein an actuator central axis and a control element central axis pass through the second bearing area and the sixth bearing area.

42. The device according to Claim 1, wherein at least one counter bearing and/or at least one transmission element comprises at least one rounded section in the area of the first or fourth bearing area, said rounded section allowing rolling in respect of a relative motion between a housing and the transmission element.

43. The device according to Claim 42, wherein at least one rounded section is formed by at least one separate element.

44. The device according to Claim 42, wherein at least one separate element is supported in a rotatable manner in the housing.

45. The device according to Claim 42, wherein at least one separate element is supported in a movable manner in the housing.

46. The device according to Claim 42, wherein at least one separate element is formed by a sphere or a drum.

47. A method for producing a transmission element for a device comprising the steps of:
- providing a first, a second, and a third bearing area,
- assigning the first bearing area to a counter bearing,
- assigning the second bearing area to the actuator,
- assigning the third bearing area to a control member,
- supporting the at least one transmission element with the first bearing area against the counter bearing when the actuator is operated and moves the control member with the third bearing area by means of a rotational motion about a point of rotation,
- configuring the at least one transmission element substantially in the form of a plate, which is disposed substantially perpendicular to the control motion,
- configuring the first, second and third bearing areas as essentially flat surfaces on the plate, and
- forging and/or milling the transmission element and then grounding the transmission element on at least one bearing area.

48. The method according to Claim 47, wherein the intermediate member is ground at least on its surfaces in contact with the second bearing area of the at least one transmission element.

49. The method according to Claim 47, wherein the support element is ground on at least its surfaces in contact with the first bearing area of the at least one transmission element.

50. Injection device with a device for transmitting an excursion of an actuator, with at least one transmission element, comprising a first, a second, and a third bearing area, wherein the first bearing area is assigned to a counter bearing, the second bearing area is assigned to the actuator and the third bearing area is assigned to a control member, wherein the at least one transmission element is supported with the first bearing area against the counter bearing when the actuator is operated and moves the control member with the third bearing area by means of a rotational motion about a point of rotation, wherein the at least one transmission element is configured substantially in the form of a plate, which is disposed substantially perpendicular to the control motion, and wherein the first, second and third bearing areas are each configured as essentially flat surfaces on the plate.

51. Injection device according to claim 50, wherein the device operates by a pump-nozzle principle.